EQIP IRRIGATION PRACTICES Estimated Water Conserved

(Acre Inches Per Acre)

Applicant No.:	Applicant:			Date:	
Practice:			Predomir	nant Soil Texture:	
	Crop(s) *			ETc (in.) **	
			-		
			_		
		Total A	nnual ETc (in.) =	0.0 in	
Estimated Amount of Water Applied BEFORE Pract	ice: Wb = ETC Eb/100	/100	=	0.00	
Estimated Amount of Water Applied AFTER Practic	we: Wa = <u>ETc</u> Ea/100	/100	= =	0.00	
Estimated Annual Water Savings:		Wb - Wa	=	0.00 ac-in/ac	
EXAMPLE:	Replace an unlined ditch with a pipeline in a furrow irrigation	n system. The soil is a loam an	d the annual ETc is	31 in.	
ETc = 31 in Efficiency BEFORE = Eb = 71% Efficiency AFTER = Ea = 78%	Estimated water applied BEFORE = WI Estimated water applied AFTER = Wa = Estimated water savings = Wb - Wa = ·	= ETc/(Ea/100) = 31/0.78 = 3			

SUGGESTED BEFORE (Eb) AND AFTER (Ea) SYSTEM EFFICIENCIES ***

		Predominant Soil Texture																
PROPOSED IRRIGATION METHOD	s Is		sl		fsl				sil		cl		C		organic			
Proposed Cost-Shared Practice	Eb	Ea	Eb	Ea	Eb	Ea	Eb	Ea	Eb	Ea	Eb	Ea	Eb	Ea	Eb	Ea	Eb	Ea
SURFACE IRRIGATION																		
Replace unlined ditch with pipeline/lining	45%	60%	52%	65%	59%	70%	67%	74%	71%	78%	73%	78%	75%	78%	75%	78%	52%	65%
SURFACE IRRIGATION																		
Replace a leaky pipeline with a pipeline	50%	60%	55%	65%	61%	70%	68%	74%	72%	78%	74%	78%	76%	78%	76%	78%	55%	65%
SURFACE IRRIGATION																		
Improve DU (Split runs, higher Q, etc.)	43%	60%	48%	65%	54%	70%	56%	74%	64%	78%	64%	78%	64%	78%	64%	78%	48%	65%
SURFACE IRRIGATION																		
Install a tailwater recovery system	53%	60%	56%	65%	58%	70%	60%	74%	61%	78%	61%	78%	62%	78%	62%	78%	56%	65%
SURFACE IRRIGATION																		
Landleveling (previously leveled)	54%	60%	59%	65%	63%	70%	67%	74%	70%	78%	70%	78%	70%	78%	70%	78%	59%	65%
SURFACE IRRIGATION																		
Landleveling (previously unleveled)	48%	60%	52%	65%	56%	70%	59%	74%	62%	78%	62%	78%	62%	78%	62%	78%	52%	65%
SPRINKLER IRR. (Hand Move/Side Roll)																		
Replace surface irrigation	43%	73%	48%	73%	54%	73%	56%	73%	61%	73%	61%	73%	62%	73%	62%	73%	48%	73%
SPRINKLER IRR. (Solid Set, Undertree)																		
Replace surface irrigation	43%	80%	48%	80%	54%	80%	56%	80%	61%	80%	61%	80%	62%	80%	62%	80%	48%	80%
SPRINKLER IRR. (Solid Set, Undertree)																		
Replace hand move sprinkler	73%	80%	73%	80%	73%	80%	73%	80%	73%	80%	73%	80%	73%	80%	73%	80%	73%	80%
TRICKLE IRRIGATION																		
Replace surface irrigation	43%	85%	48%	85%	54%	85%	56%	85%	61%	85%	61%	85%	62%	85%	62%	85%	48%	85%
TRICKLE IRRIGATION																		
Replace under tree, solid set sprinkler	80%	85%	80%	85%	80%	85%	80%	85%	80%	85%	80%	85%	80%	85%	80%	85%	80%	85%
TRICKLE IRRIGATION																		
Replace hand move sprinkler	73%	85%	73%	85%	73%	85%	73%	85%	73%	85%	73%	85%	73%	85%	73%	85%	73%	85%
CENTER PIVOTS																		
Replace surface irrigation	43%	80%	48%	80%	54%	80%	56%	80%	61%	80%	61%	80%	62%	80%	62%	80%	48%	80%
CENTER PIVOTS																		
Replace wheel lines	73%	80%	73%	80%	73%	80%	73%	80%	73%	80%	73%	80%	73%	80%	73%	80%	73%	80%
OTHER														•				
	Seek assistance from your Area Engineer. Document procedures and source of values.																	

^{*} List crop, multiple crops each calendar year, or crops in a typical rotation. If there is a permanent crop change, only list the new crop.

^{**} Used here as an approximation of the net water requirement. Effective precipitation or salt leaching and other beneficials water uses are not accounted for. For crops in rotation, calculate a weighted average ETc for a rotation cycle. If there is a permanent crop change, use the ETc of the new crop. Include cover crop ETc if applicable.

*** For estimating water savings associated with the EQIP program. These values can be used to represent cost-share applicant conditions. For surface irrigation, values apply to systems on uniform

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